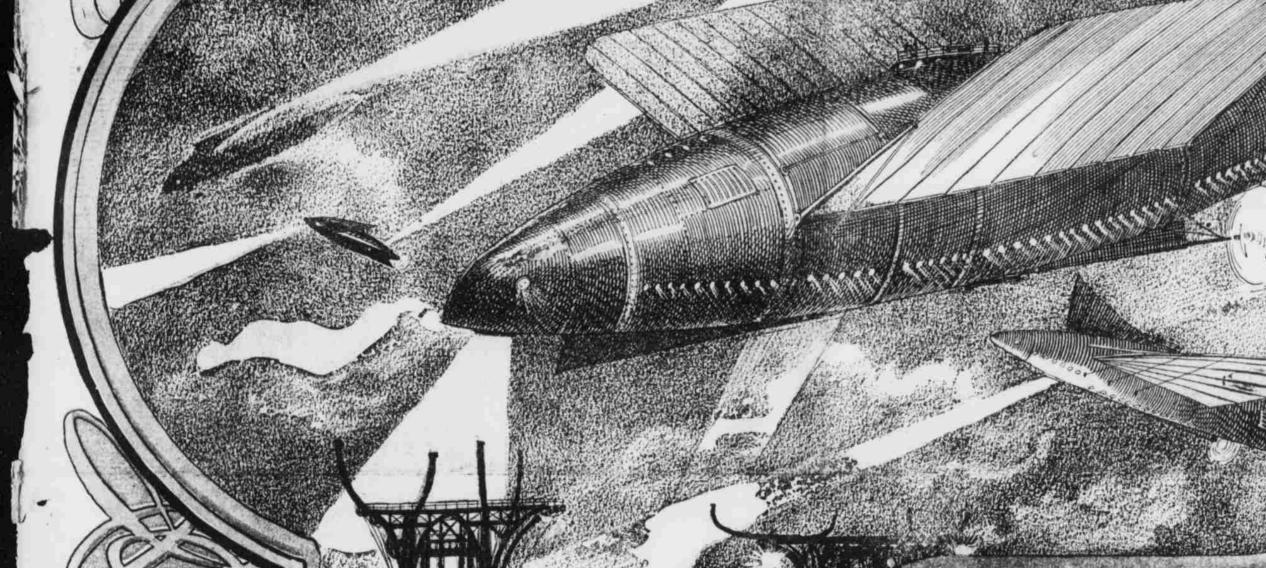
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easily as we flash across the continent by rail to-day, many times more quickly, and far more profitably and economically, too?

The wise men of the civilized portions of the world are now pretty generally agreed that we will. A few decades ago they were not. Since then, in the natural march of events, several things have happened to cause them to face about, and it would surprise none to wake up to-morrow-next week-next year, to the certain knowledge that man is flying at last. "Impossible!" you exclaim in tones

that savor of disgust at such a vision.

That is the very word the great body of people employed when, at one time or another, a single man, or, at least, a small body of men, were firm in the belief that we would yet sail by steam, send messages by dots over wires, actually talk over wires, ride in horseless carriages, send and receive messages over thousands of miles of space without the aid, even, of intervening wires! And this is the word that a great many of us let rise to our lips when we hear a learned man, orthodox in all things else, solemnly declare that we will

yet fly. Fly, not float, mind you.

We can float in the air now. The trick is nothing. We have been floating in the air, lo! these many decades past. The balloon is a floating bag,

This is true of both the dirigible and non-dirigible types. In each case the thing that gets the balloon up in the air and keeps it suspended there is gas. Gas, as every one knows, is a substance lighter than air, and so it is capable, prove to the world the complete pracwhen used in sufficient quantity, to float ticability and utility of air travel will the silken cloth, the ropes, the woven be-who knows how many hundred times basket, and whatever else goes into the heavier than the substance filling the unmake-up of the contraption we call a seen and boundless sea through which it

But the invention that is to give us homing pigeon's, with the steadiness and the mastery of the now uncharted high- docility of an old family horse? ways of the air will travel along these very betways on its own initiative. It in conscious imitation of the flights of will be an active, not a passive, so- the birds. journer a the realm of overhead.

In this feature it will be like unto the bird, and again, like the bird, it will ance offered to the air by its wings. flies! be heavier, many times heavier, than the In other words, we shall never attain air itself. a vulture's body is a thou- flight by merely displacing air, as we do runner-invented by the late Prof. E. P. though the greatest ambition of the ture of a bird. I do not believe it will caught in the swirling, clashing, battling fought in the sand times heavier than the air it dis- when floating in the straight out bal- Langley, of the Smithsonian Institution, world to-day seems to be to fly, many be difficult, because we have many me- currents, will be hurtled miles out of

of its rapid wing beats, an almost imperceptible distance, and shoots forward slight inclination, downwards by just the are others. amount the wing beat raises it, and forwards a considerable distance-the result being rapid flight."

places; the machine in which man will

will shoot with speed outrivalling the

And our flight through space will be

Every bird, every flying thing, flies be-

delightful sense of safety to the passen- their own initiative, the power furnished Through further study of the bird and taught from childhood that even the Chicago, a run of to correct the position of the center of actual flight. gravity, bird fashion, thus insuring permanent stability in the air,

loon or the so-called airship of to-day.

Further, we will fly as does the pigeon,

goria of the brain?

flown in or flown machines as the pigeon tricks at the most inopportune moments is to it. cause its flight is based upon the resist-

elided on an inclined plane forward through the air, recovered itself and glided again. Though the public has not through the air like a bird. Any scien It, "in full flight, raises itself by each tist who has paid any attention whatever to aeronautics will tell you that meant that man should fly, that if na- for some long surviving antideluvian in- for a short time v Pilcher's gliding machine acts in the air between each flap along a plane of very just like a bird in flight. And there

traveled overhead for varying distances, might as well say that it was never derful ingenuity will enable him to con- flight, of from two No bag of gas lifted them in the air Our flight, then, will be a gradual and kept them suspended therein, while light aside from the sun and the moon the principle and at the same time have not journey through gliding down an inclined plane and a a motor or an engine of some sort fur- and stars which were originally proconstant recovery by upshoots. In some nished driving power to a propeller, as vided for him, or that he should not slightest degree. Propellors there will the universe! A m forms of flight these two actions occur in the case of the Santos Dumont and move about faster with the aid of be, and a rudder, doing the work of twelve seconds, the almost simultaneously. So will they in other airships. Like a bird they have wheels because no wheels were supplied wings and tail. But it will be flight a single night, an the perfected flying machine, insuring a sailed, remained in the air by reason of to him by nature."

on their inventors and an anxiously Time after time the aerodrome-air watching and waiting world. And so, something similar to the physical structure renely on its course, while birds,

ful shake of the head, never fly."

to say that man ought to be ashamed the machine and brain of the bird." of himself for not having solved the problem, in all its phases, long ago.

"I was down in Florida, and one day why have we not been mavigating the I watched a big bird-I think it was a air these many years? For one thing, that of a bird's body vulture-that floated about in the air a whole hour without moving its wings to fly, left off trying to be original and the other blunted son perceptibly. When God made that bird endeavored to copy the bird, the handi- taking their cue fi He gave it a machine to fly with, but work of nature. It is a significant fact have been picturing He didn't give it much else. He gave the that only since we have looked to the bird a very small brain with which to direct the movements of the machine, been built a machine with an indisput- nigh miraculous nov but He gave to man a much larger brain in proportion to that of the bird." All this is paraphrased in the one word Shame!"

"Here," says Edison of the vulture, And some day-some day-ah, who only a few years "is a natural flying machine which is a thousand times as heavy as the air it displaces. There is nothing but a mayet seen it in action, there are many chine and a small brain, and it is not trustworthy men who have testified to a very remarkable machine, either," And quest of the air by man? having beheld the flying machine of the then in self-evident disgust: "Why is it Wright brothers, of Ohio, gliding that man cannot make a flying machine as efficient as a bird?

"A lot of people say that it was never ture had intended such a thing man habitant of the air. Indeed, not a few would have been provided with the necessary machinery in his body, such as nautics declare that, once man has dis-Like a bird in gliding flight have they is now possessed by the bird. But you covered the principle of flight, his wonintended that man should ever have any

ger, nonchalantly defiant of the law of by motors or engines causing the me- its method of flight man will discover angels need wings to fly. Other scien- the metropolis to the gravitation, he knowing full well the ma- chanisms to offer the necessary bird-like how to fly, says Mr. Edison, and all tist, however, believe that there will be chine's ability constantly and arbitrarily resistance to the air, with the result of others who have given the subject any great planes, two or more, mechanically chinery? There is serious thought agree with him fully. worked like wings, in conjunction with But, alas, because we do not yet pos- But, Mr. Edison adds, somewhat para- propellors and rudder. sess the full knowledge of the principle doxically, he who solves the problem of The wisest of men declare all this; of flight, as does the meanest of birds flight "will find out nothing new. Powstill, you say, a dream-a phantasma- and flying insects, those flying machines erful motors of wonderful compactness to give flight. Once more man will imwhich have justified their name, in part will be applied to a framework of ex- prove on nature, and the mechanisms of power from space, Surely not when man has already at least, have been wont to play queer treme lightness, and that will be all there his ingenuity will drive the good air ma- veyances there

"Doubtless this framework will be

beings and animals, and I do not see strange country. Right here, up steps the greatest why we may not put together a conwizard of his day, Thomas A. Edison, trivance which will at least be equal to

> So, if man-flight is such an easy matter as Mr. Edison nunkes it out to be, places, we have only recently, in our attempts bird for the secret of flight has there able record of flying ever so small a lighter in weight the distance. Only since we have begun to able of such power of imitate the bird have the wise men be- just as the automob come convinced that we will yet fly. is infinitely lighter t would not like his name to go rolling mighty engines of i down the ages as the inventor of the first machine to demonstrate beyond the shadow of a doubt the complete con-

Though man, when he flies, will fly like the birds, it does not necessarily follow that the flying machine, on account of its structure, might be taken the case of the bird, scientists who have been busy with aerostruct a machine that will incorporate hundred miles an he nothing about it resembling wings in the this speed, we who without wings-and we have been fore-dinner trip ber

Again, in their perfected state, pro- a little will go a pellors and rudder will do more than haps, say the most chine through gales that the strongest semble the giant bird could not face, will keep it se- ocean greyhounds

steel? Certainly of t material equally stro many times heavier

The shape of the like structure, with on

What will drive i greyhound" are ligh

And the motors v motion, offering resi and flight will be

aerodrome.

opinion, but all are will be very small, it